



Radio Test Report

FCC ID: H4IST9074

This report concerns (check one) : Original Grant Class II Change

Issued Date : Mar. 04, 2014
Project No. : 1402115
Equipment : Bluetooth keyboard
Model Name : ST-9074

Applicant : LITE-ON TECHNOLOGY CORP.
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Taipei 11492, Taiwan, R.O.C

Tested by: Neutron Engineering Inc. EMC Laboratory
Date of Receipt: Feb. 17, 2014
Date of Test: Feb. 17, 2014 ~ Mar. 05, 2014

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Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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REPORT ISSUED HISTORY

Revised Version No.	Description	Issued Date
NEI-FCCP-1-1402115	Original Issue.	Mar. 06, 2014



1 CERTIFICATION

Equipment : Bluetooth keyboard
Brand Name : Liteon
Model Name : ST-9074
Applicant : LITE-ON TECHNOLOGY CORP.
Manufacturer : Silitek Electronic (Dong Guan) Co., Ltd.
Address : The Mid. of Keji Road, Shi Jie Town Dongguan City, Guangdong Province,
P.R.China 523302
Date of Test : Feb. 17, 2014 ~ Mar. 05, 2014
Standards : FCC Part 15, Subpart C: 2012
ANSI C63.4: 2009

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-1402115) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and TAF according to the ISO-17025 quality assessment standard and technical standard(s).



2. SUMMARY OF TEST RESULTS

FCC Part 15, Subpart C: 2012		
Standard Clause	Test Item	Result
FCC Part 15, Subpart C		
15.207	Conducted Emission	N/A
15.247 (c)	Antenna conducted Spurious Emission	PASS
15.247 (a)(1)	Hopping Channel Separation	PASS
15.247 (b)	Maximum Peak Conducted Output Power	PASS
15.247 (c)	Radiated Spurious Emission	PASS
15.247 (b)(1)	Number of Hopping Frequency	PASS
15.247 (a)(1)	Average time of occupancy	PASS
15.205	Restricted Bands	PASS
15.203	Antenna Requirement	PASS

NOTE:

1. **N/A**: denotes test is not applicable in this Test Report



2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

Radiated emission Test (Below 1 GHz):

CB08: (FCC RN: 614388; FCC DN: TW1054; IC Assigned Code: 4428C-1)
1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

Radiated emission Test (Above 1 GHz):

CB08: (VCCI RN: G-91; FCC RN: 614388; FCC DN: TW1054; IC Assigned Code: 4428C-1)
1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty is not specified by FCC/Industry Canada rules and for reference only.

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95%**.

The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2.

A. Radiated emission test:

Test Site	Item	Measurement Frequency Range	Uncertainty	NOTE	
CB08	Radiated emission at 3m	Horizontal Polarization	30 - 200MHz	3.35 dB	
			200 - 1000MHz	3.11 dB	
			1 - 18GHz	3.97 dB	
			18 - 40GHz	4.01 dB	
		Vertical Polarization	30 - 200MHz	3.22 dB	
			200 - 1000MHz	3.24 dB	
			1 - 18GHz	4.05 dB	
			18 - 40GHz	4.04 dB	

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above. These are our U_{lab} values in CISPR 16-4-2 terminology.

Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called U_{CISPR} , as follows:

Conducted Disturbance (mains port) – 150 kHz – 30 MHz : 3.6 dB

Radiated Disturbance (electric field strength on an open area test site or alternative test site) – 30 MHz – 1000 MHz : 5.2 dB

It can be seen that our U_{lab} values are smaller than U_{CISPR} .



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Bluetooth keyboard	
Brand Name	Liteon	
Model Name	ST-9074	
Model Difference	N/A	
Product Description	Operation Frequency	2402 MHz ~ 2480 MHz
	Modulation Type	GFSK(1Mbps)
	Bit Rate of Transmitter	
	Maximum Peak Output Power	1 Mbps: 2.66 dBm (0.0018 W)
Power Source	1. Supplied from micro USB DC Source. 2. Battery supplied.	
Power Rating	1. I/P: DC 5V 2. I/P: DC 3.7V 250mAh	
Connecting I/O Port(s)	Please refer to User Manual.	
Products Covered	Polymer Li-ion Battery: AEC232090	

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed	N/A	-0.86



3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Test Items	Mode	Data Rate	Tested Channel/Mode
Antenna conducted Spurious Emission	GFSK	1 Mbps	2402 MHz, 2441 MHz, 2480 MHz
Hopping Channel Separation	GFSK	1 Mbps	2402 MHz, 2441 MHz, 2480 MHz
Maximum Peak Conducted Output Power	GFSK	1 Mbps	2402 MHz, 2441 MHz, 2480 MHz
Radiated Spurious Emission (30 MHz to 1 GHz)	GFSK	1 Mbps	2441 MHz
Radiated Spurious Emission (above 1 GHz)	GFSK	1 Mbps	2402 MHz, 2441 MHz, 2480 MHz
Number of Hopping Frequency	GFSK	1 Mbps	2402 MHz ~ 2480 MHz
Average time of occupancy	GFSK	1 Mbps	2402 MHz, 2441 MHz, 2480 MHz
Restricted Bands	GFSK	1 Mbps	2402 MHz, 2480 MHz
Antenna Requirement	GFSK	---	---

NOTE: The measurements are performed at the highest, middle, lowest available channels.



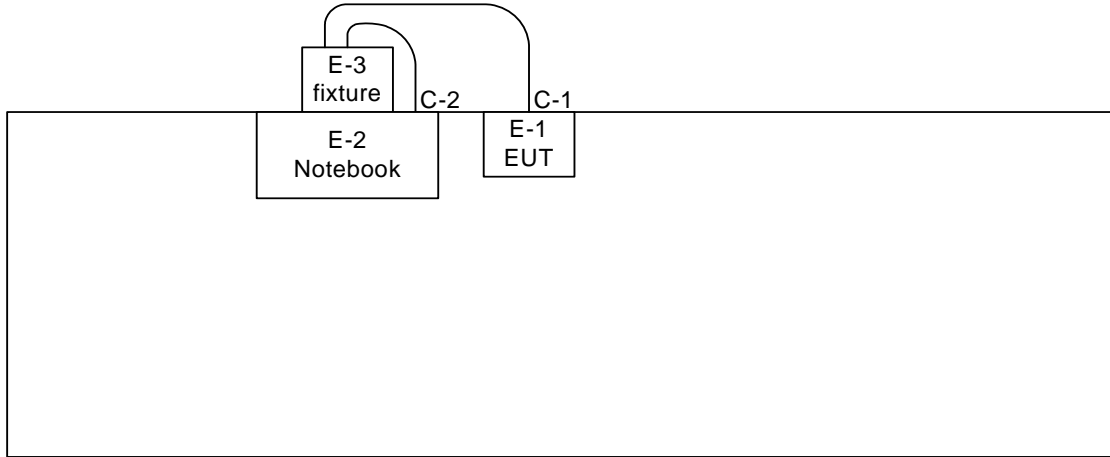
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Test software version	BROACOM BLUETOOL		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters-1Mbps	DEF	DEF	DEF



3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



C-1 USB Cable
C-2 DATA Cable



3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-2	Notebook PC	DELL	D620	DOC	7T390 A03	
E-3	FIXTURE BOARD	N/A	N/A	N/A	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	NO	0.6M	USB Cable
C-2	YES	NO	0.3M	Data Cable

NOTE: The support equipment was authorized by Declaration of Conformity (DOC).



4 ANTENNA CONDUCTED SPURIOUS EMISSION

4.1 LIMIT

Test Item	Frequency Range (MHz)	Limit
Antenna conducted Spurious Emission	30-25000	20 dB less than the peak value of fundamental frequency

4.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

4.3 TEST PROCEDURES

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

4.4 TEST SETUP LAYOUT



4.5 DEVIATION FROM TEST STANDARD

No deviation

4.6 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

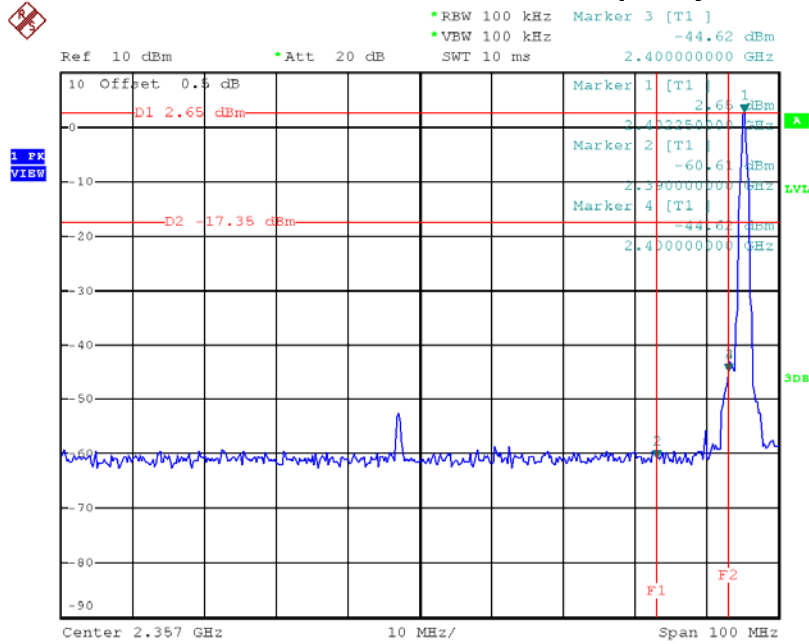


4.7 TEST RESULTS

EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	46%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/1 Mbps		

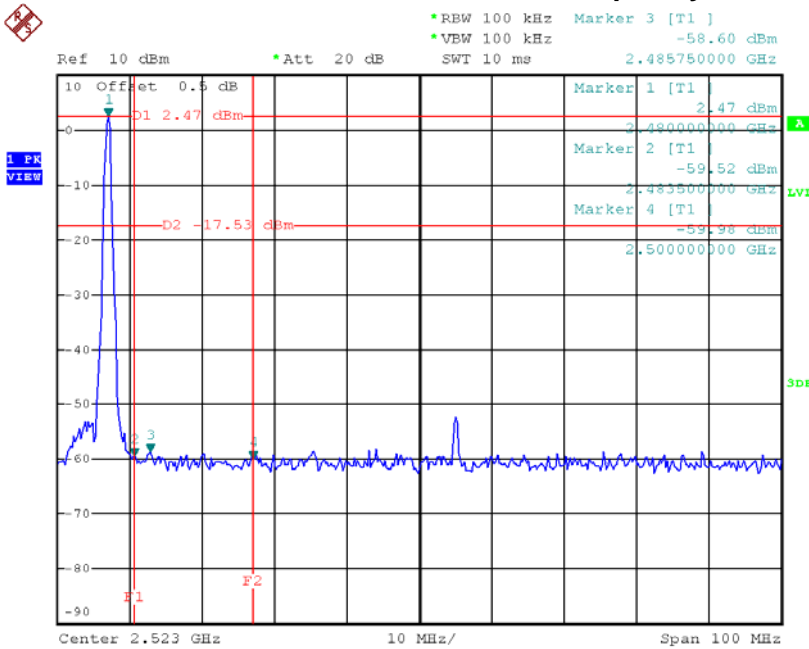


Bluetooth/The max. radio frequency power in any 100kHz bandwidth outside the frequency band



Date: 24.FEB.2014 16:28:01

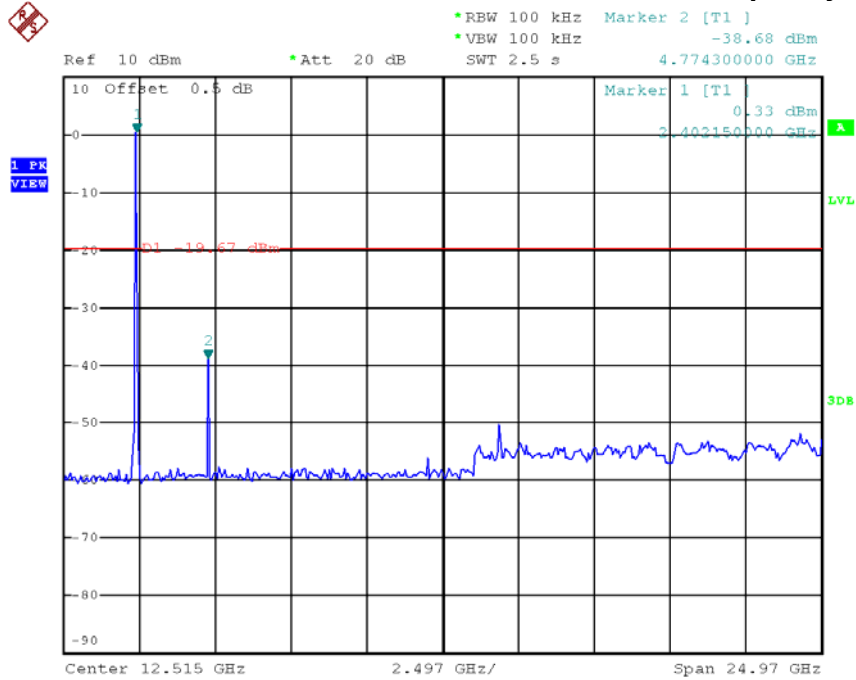
Bluetooth/The max. radio frequency power in any 100 kHz bandwidth within the frequency band



Date: 24.FEB.2014 16:33:13

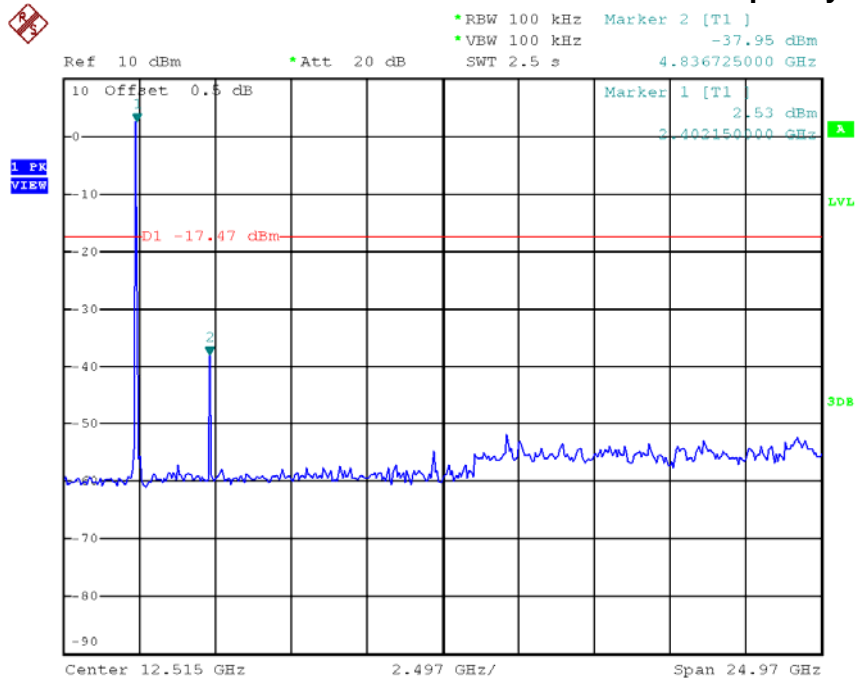


Bluetooth/2402 MHz/10 Harmonic of the frequency



Date: 24.FEB.2014 16:27:29

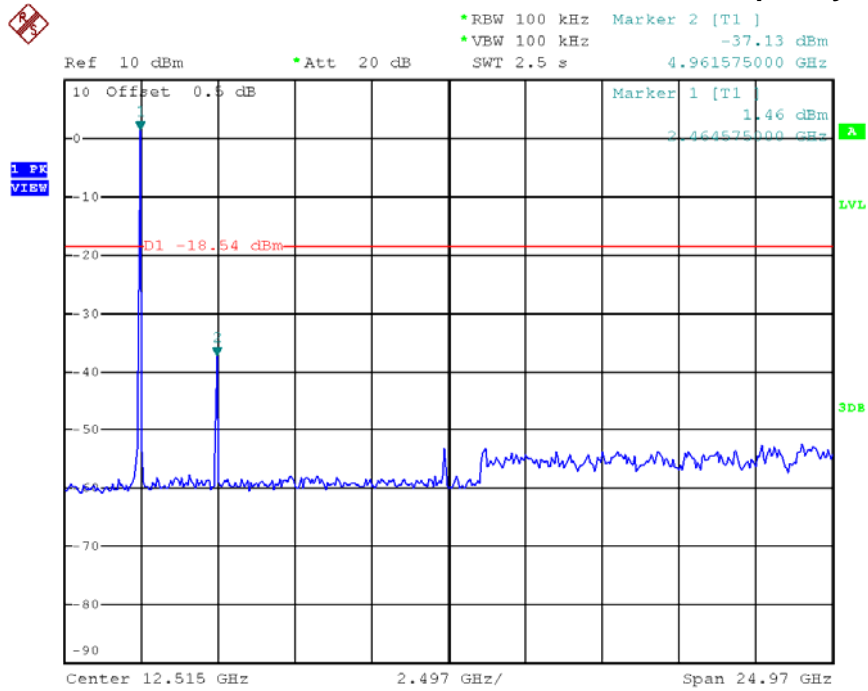
Bluetooth/2441 MHz/10 Harmonic of the frequency



Date: 24.FEB.2014 16:30:18



Bluetooth/2480 MHz/10 Harmonic of the frequency



Date: 24.FEB.2014 16:32:38



5 HOPPING CHANNEL SEPARATION

5.1 LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

5.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

5.3 MEASURING INSTRUMENTS SETTING

EMI Test Receiver	Parameter Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 300 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.4 TEST PROCEDURES

- The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for 20 dB bandwidth measurement.
- The resolution bandwidth of 100 kHz and the video bandwidth of 300 kHz were utilised for channel separation measurement.

5.5 TEST SETUP LAYOUT



5.6 DEVIATION FROM TEST STANDARD

No deviation

5.7 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.



5.8 TEST RESULTS

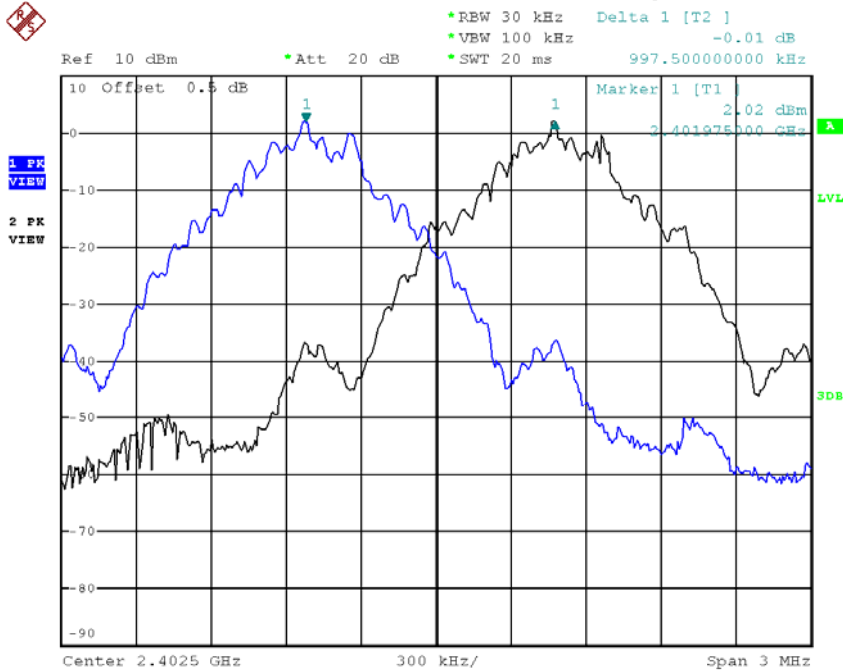
EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	46%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/2402 MHz, 2441 MHz, 2480 MHz		

Frequency	Channel Separation (MHz)	20 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Two-thirds of the 20 dB Bandwidth	Result
2402 MHz	0.988	0.988	0.945	0.658	PASS
2441 MHz	1.005	1.037	0.960	0.692	PASS
2480 MHz	0.988	1.032	0.960	0.688	PASS

NOTE: Ch. Separation Limits: >25 KHz or >2/3 of 20dB bandwidth

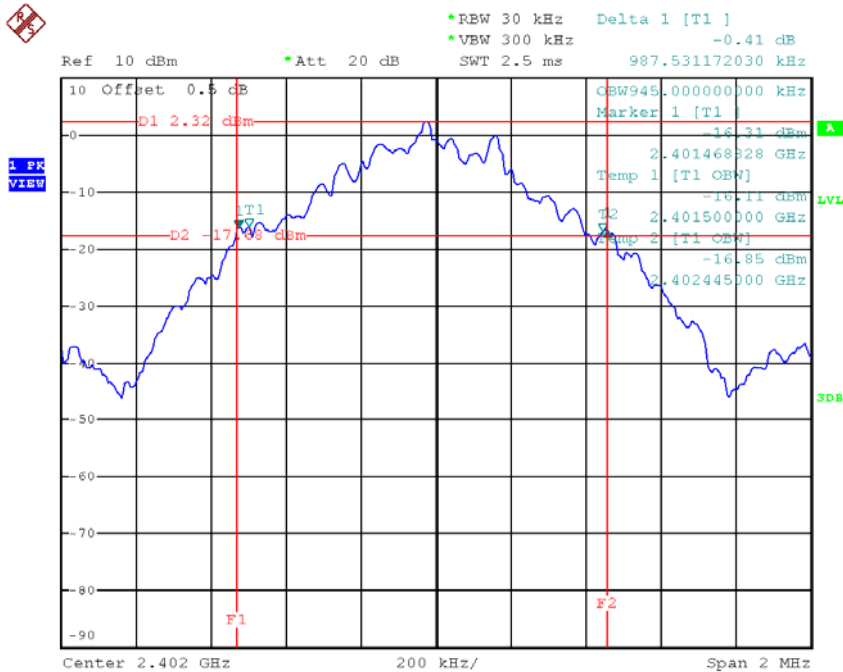


Bluetooth/2402 MHz/Channel Separation



Date: 24.FEB.2014 16:29:34

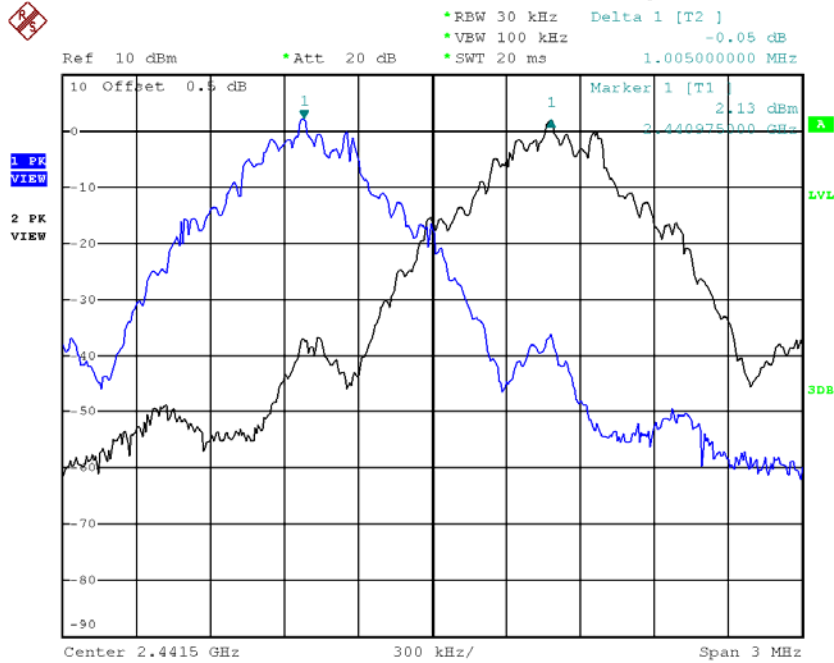
Bluetooth/2402 MHz/20dB Bandwidth



Date: 24.FEB.2014 16:27:49

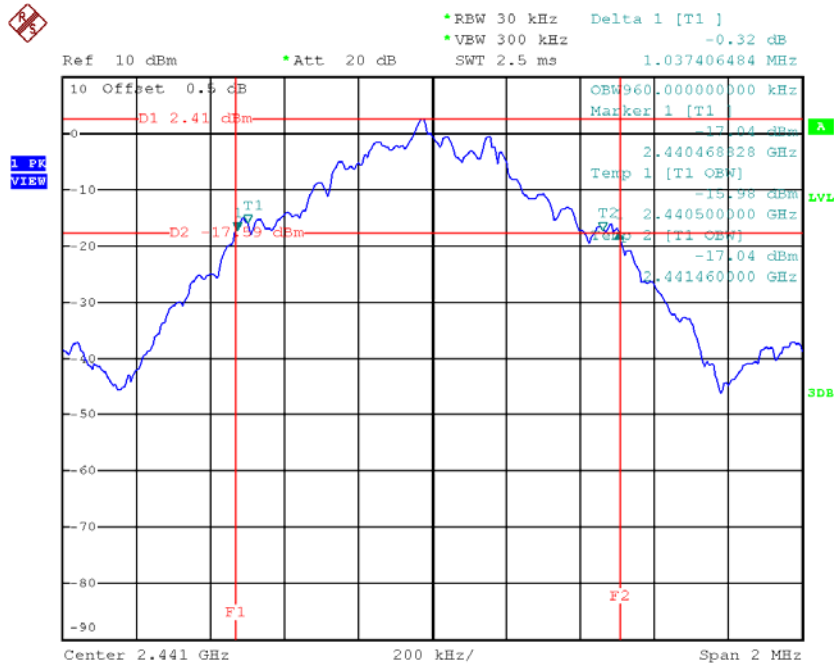


Bluetooth/2441 MHz/Channel Separation



Date: 24.FEB.2014 16:31:55

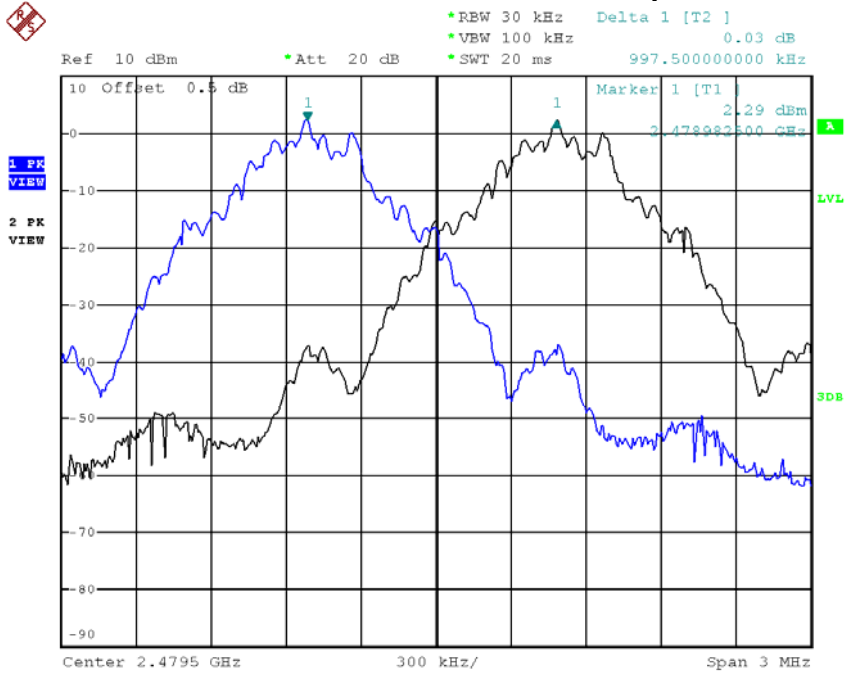
Bluetooth/2441 MHz/20dB Bandwidth



Date: 24.FEB.2014 16:30:40

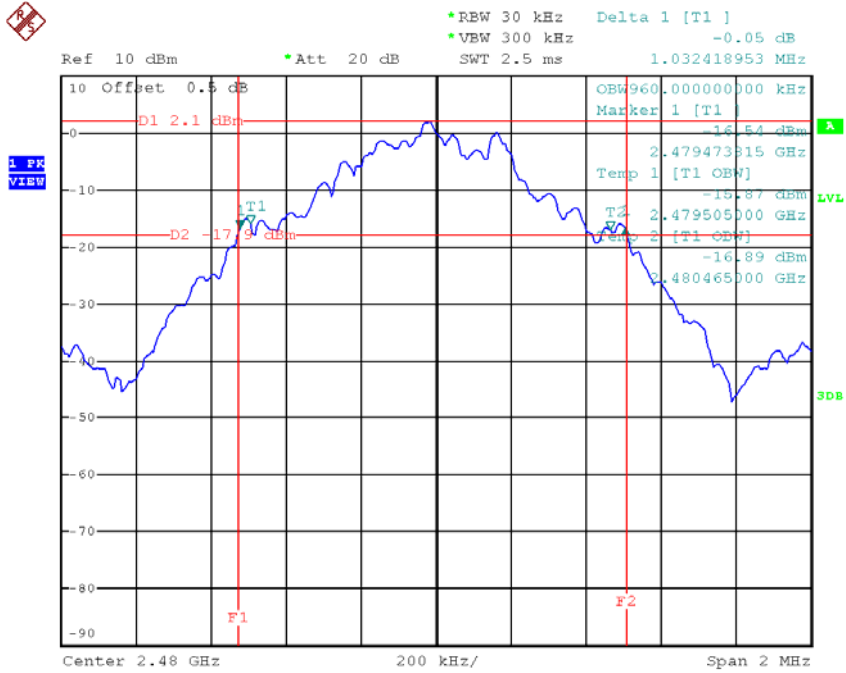


Bluetooth/2480 MHz/Channel Separation



Date: 24.FEB.2014 16:36:12

Bluetooth/2480 MHz/20dB Bandwidth



Date: 24.FEB.2014 16:33:00



6 MAXIMUM PEAK CONDUCTED OUTPUT POWER

6.1 LIMIT

Test Item	Frequency Range (MHz)	Limit
Maximum Peak Conducted Output Power	2400-2483.5	1 watt or 30 dBm

6.2 MEASUREMENT INSTRUMENTS LIST

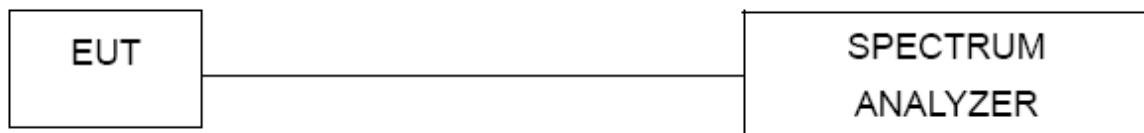
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

6.3 TEST PROCEDURES

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 3 MHz, VBW= 3 MHz, Sweep time = Auto.

6.4 TEST SETUP LAYOUT



6.5 DEVIATION FROM TEST STANDARD

No deviation

6.6 EUT OPERATING CONDITIONS

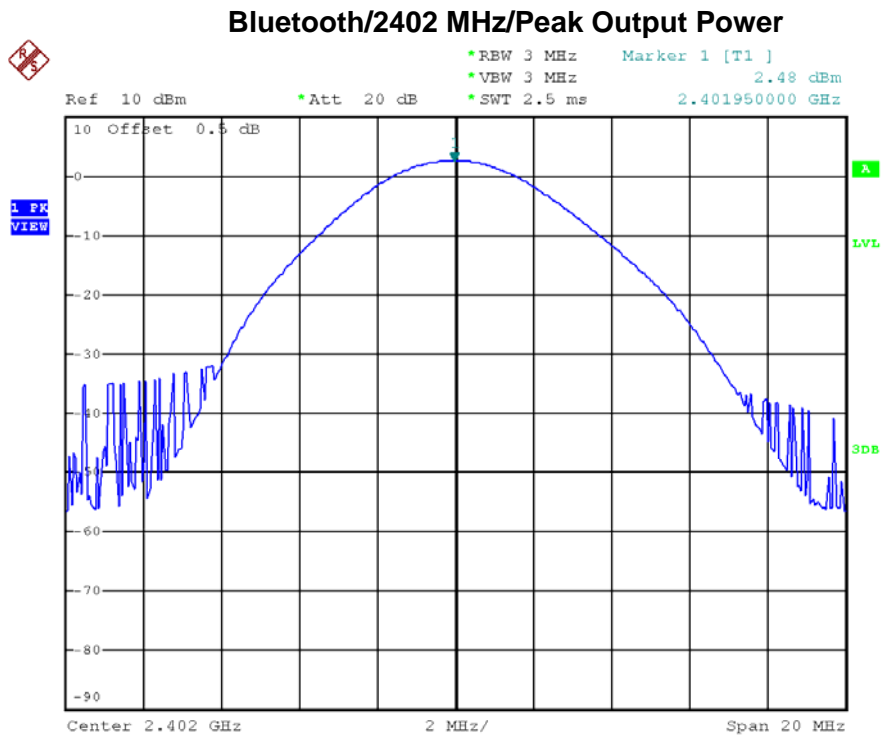
The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.



6.7 TEST RESULTS

EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	46%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/2402 MHz, 2441 MHz, 2480 MHz		

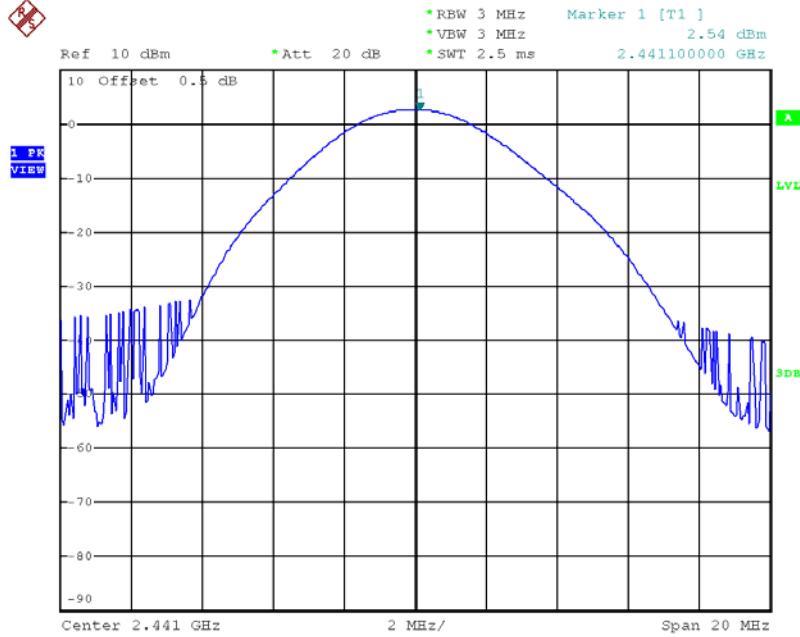
Frequency	Peak Output Power		Limit		Result
	(dBm)	(W)	(dBm)	(W)	
2402 MHz	2.48	0.0018	30	1	PASS
2441 MHz	2.54	0.0018	30	1	PASS
2480 MHz	2.66	0.0018	30	1	PASS



Date: 24.FEB.2014 16:28:34

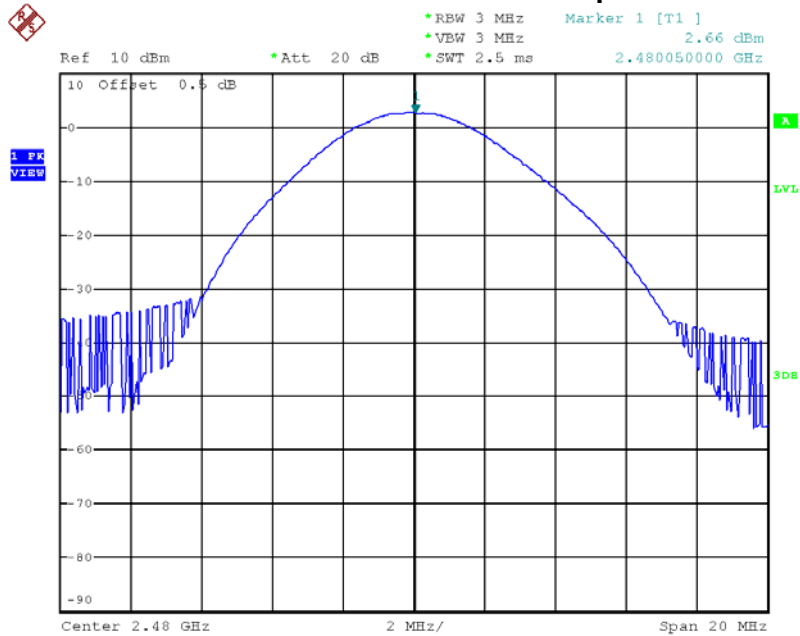


Bluetooth/2441 MHz/Peak Output Power



Date: 24.FEB.2014 16:31:14

Bluetooth/2480 MHz/Peak Output Power



Date: 24.FEB.2014 16:33:56



7 RADIATED SPURIOUS EMISSION (9 KHZ TO 1 GHZ)

7.1 LIMIT

20 dB in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency Range: 9 kHz to 1 GHz		
FREQUENCY (MHz)	Field Strength (micровolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Frequency Range: above 1 GHz				
FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
above 1 GHz	80	60	74	54

NOTE:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain(if use)
 Margin Level = Measurement Value – Limit Value



7.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014
2	Horn Antenna	Schwarzbeck	BBHA 9120	D-325	Apr. 15, 2014
3	Microwave Pre_amplifier	Agilent	8449B	3008A01714	Apr. 16, 2014
4	Microflex Cable	Harbour industries	27478LL142	1m	May. 13, 2014
5	Microflex Cable	EMC	S104-SMA	8m	May. 13, 2014
6	Microflex Cable	Harbour industries	27478LL142	3m	May. 13, 2014
7	Test Cable	LMR	LMR-400	12m	May. 14, 2014
8	Test Cable	LMR	LMR-400	3m	May. 14, 2014
9	Pre-Amplifier	Anritsu	MH648A	M92649	Jun. 18, 2014
10	Log-Bicon Antenna	Schwarzbeck	VULB9168-352	9168-352	Jun. 11, 2014

Remark: "N/A" denotes No Model Name, No Serial No. or No Calibration specified.

7.3 MEASURING INSTRUMENTS SETTING

EMI Test Receiver	Parameter Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



7.4 TEST PROCEDURES

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1 GHz. For frequencies above 1 GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m Semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- g. The testing follows the guidelines in ANSI C63.4 and FCC Public Notice DA 00-705 Measurement Guidelines. In case the emission is fail due to the used RBW/VBW is too wide, marker-delta method of FCC Public Notice DA 00-705 will be followed.

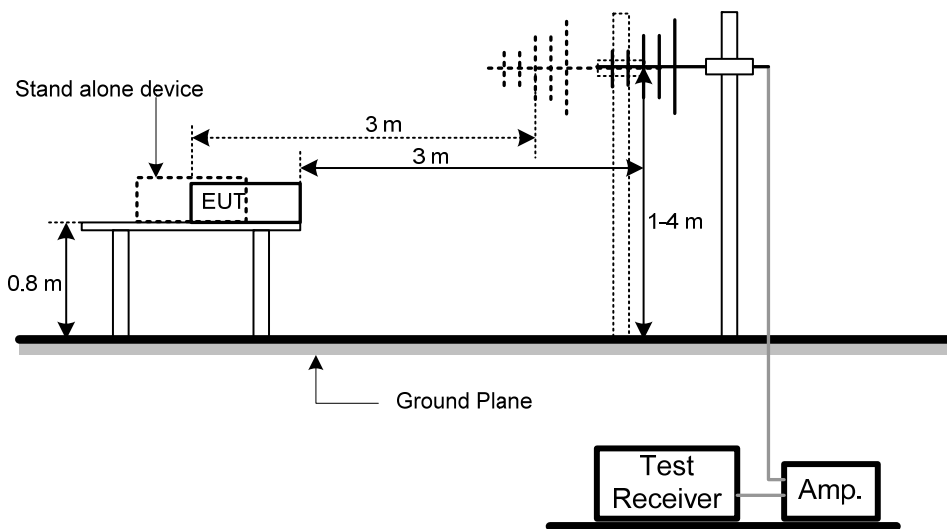
NOTE:

- a. Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode with Detector BW=120 kHz; SPA setting in RBW=100 kHz, VBW =100 kHz, Swp. Time = 0.3 sec./ MHz.
- b. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.

7.5 DEVIATION FROM TEST STANDARD

No deviation

7.6 TEST SETUP LAYOUT





7.7 EUT OPERATING CONDITIONS

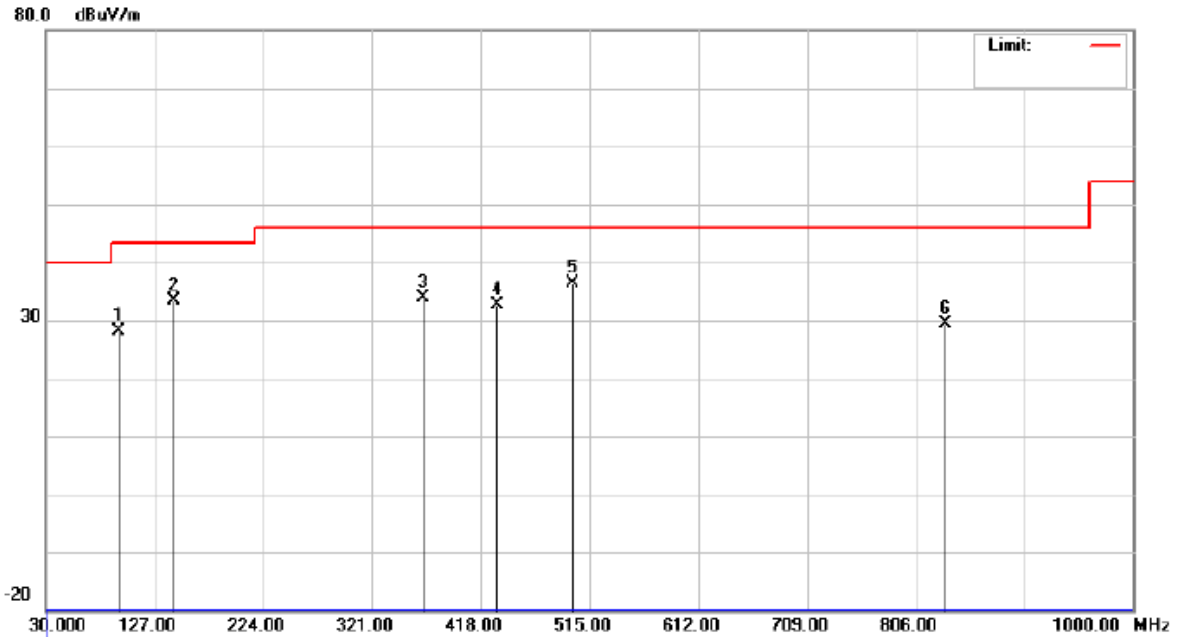
The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.



7.8 TEST RESULTS

EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/2441 MHz		

Polarization: Vertical

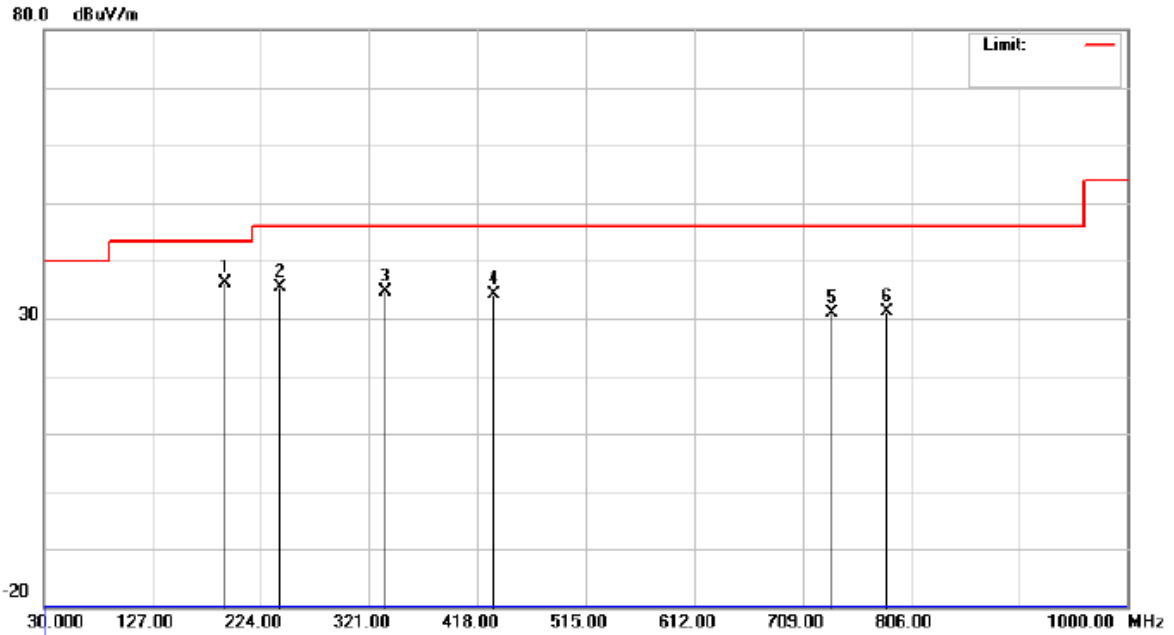


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		95.4750	47.98	-19.73	28.25	43.50	-15.25	peak	
2		143.9750	47.89	-14.43	33.46	43.50	-10.04	peak	
3		367.0750	45.98	-12.20	33.78	46.00	-12.22	peak	
4		432.5500	42.87	-10.26	32.61	46.00	-13.39	peak	
5	*	500.4500	45.93	-9.48	36.45	46.00	-9.55	peak	
6		832.6750	33.59	-4.31	29.28	46.00	-16.72	peak	



EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/2441 MHz		

Polarization: Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	192.4750	53.02	-16.78	36.24	43.50	-7.26	peak	
2		240.9750	50.90	-15.42	35.48	46.00	-10.52	peak	
3		335.5500	47.41	-12.73	34.68	46.00	-11.32	peak	
4		432.5500	44.47	-10.26	34.21	46.00	-11.79	peak	
5		735.6750	36.62	-5.67	30.95	46.00	-15.05	peak	
6		784.1750	36.20	-5.00	31.20	46.00	-14.80	peak	



8 RADIATED SPURIOUS EMISSION (ABOVE 1 GHz)

8.1 LIMIT

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency Range: 9 kHz to 1 GHz		
FREQUENCY (MHz)	Field Strength (micровolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Frequency Range: above 1 GHz				
FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
above 1 GHz	80	60	74	54

NOTE:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain(if use)
 Margin Level = Measurement Value – Limit Value



8.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014
2	Horn Antenna	Schwarzbeck	BBHA 9120	D-325	Apr. 15, 2014
3	Microwave Pre_amplifier	Agilent	8449B	3008A01714	Apr. 16, 2014
4	Microflex Cable	Harbour industries	27478LL142	1m	May. 13, 2014
5	Microflex Cable	EMC	S104-SMA	8m	May. 13, 2014
6	Microflex Cable	Harbour industries	27478LL142	3m	May. 13, 2014
7	Test Cable	LMR	LMR-400	12m	May. 14, 2014
8	Test Cable	LMR	LMR-400	3m	May. 14, 2014

Remark: "N/A" denotes No Model Name, No Serial No. or No Calibration specified.

8.3 MEASURING INSTRUMENTS SETTING

Spectrum Analyzer	Parameter Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (other emission)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average



8.4 TEST PROCEDURES

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1 GHz. For frequencies above 1 GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m Semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- g. The testing follows the guidelines in ANSI C63.4 and FCC Public Notice DA 00-705 Measurement Guidelines. In case the emission is fail due to the used RBW/VBW is too wide, marker-delta method of FCC Public Notice DA 00-705 will be followed.

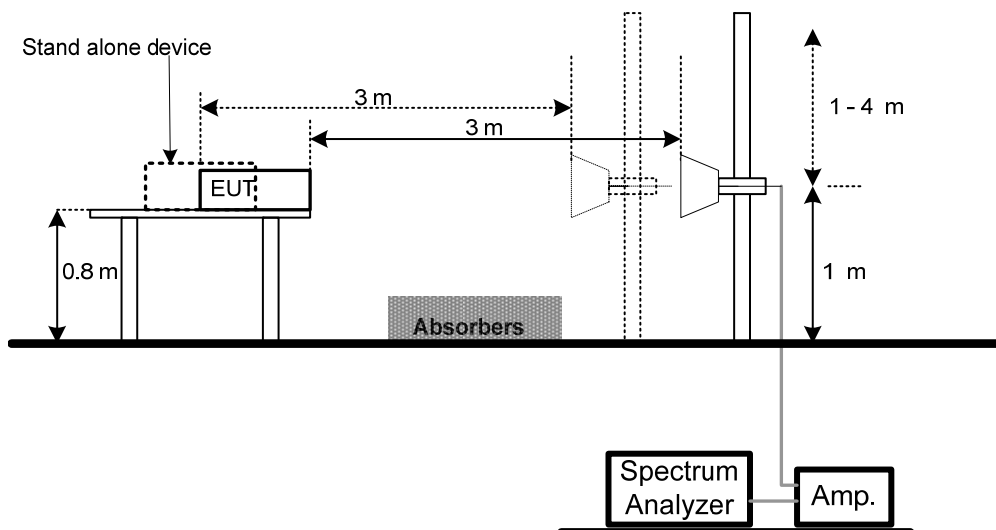
NOTE:

- a. Reading in which marked as Peak means measurements by using are Peak Mode with instrument setting in RBW= 1 MHz, VBW= 1 MHz, Swp. Time = Auto.
Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW= 1 MHz, VBW= 10 Hz, Swp. Time = Auto.
- b. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform.

8.5 DEVIATION FROM TEST STANDARD

No deviation

8.6 TEST SETUP LAYOUT





8.7 EUT OPERATING CONDITIONS

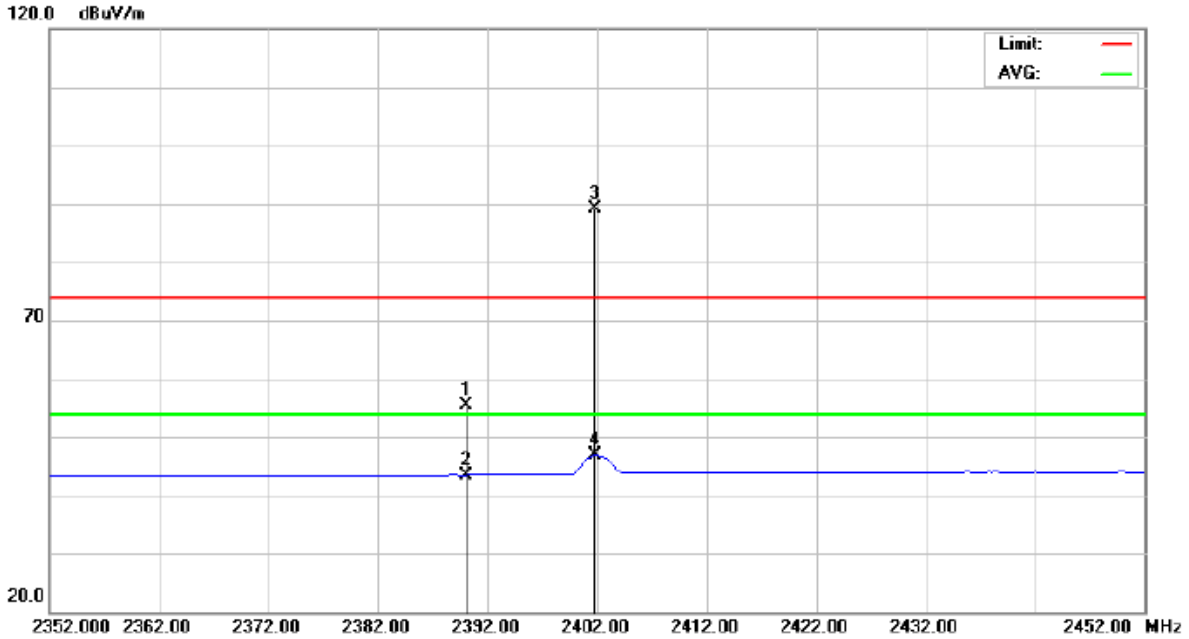
The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.



8.8 TEST RESULTS

EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/2402 MHz		

Polarization: Vertical

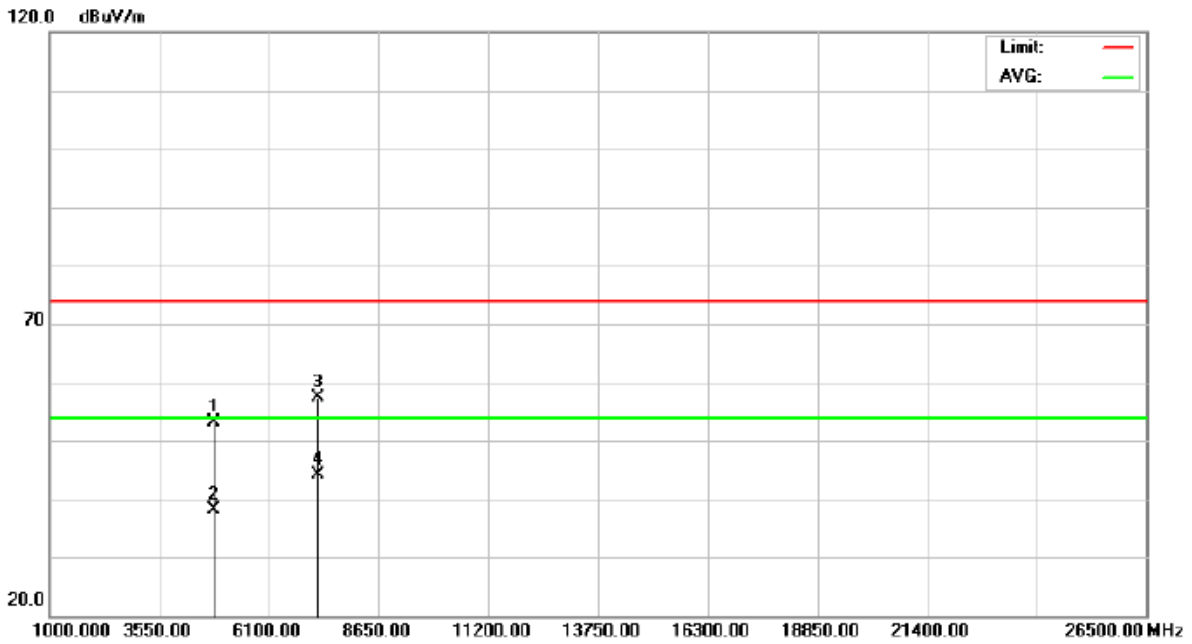


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	23.57	31.81	55.38	74.00	-18.62	peak	
2		2390.000	11.67	31.81	43.48	54.00	-10.52	AVG	
3	*	2401.750	57.28	31.86	89.14	74.00	15.14	peak	
4		2401.750	14.90	31.86	46.76	54.00	-7.24	AVG	



EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/2402 MHz		

Polarization: Vertical

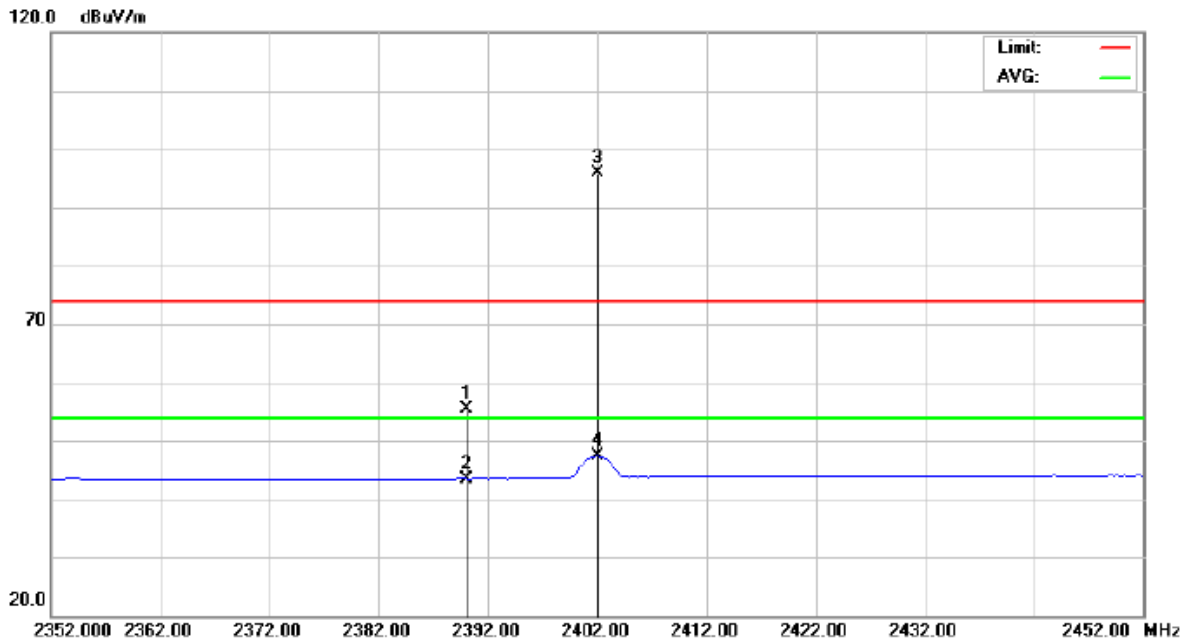


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4803.930	47.05	6.19	53.24	74.00	-20.76	peak	
2		4803.930	31.87	6.19	38.06	54.00	-15.94	AVG	
3		7206.010	45.09	12.38	57.47	74.00	-16.53	peak	
4	*	7206.010	31.79	12.38	44.17	54.00	-9.83	AVG	



EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/2402 MHz		

Polarization: Horizontal

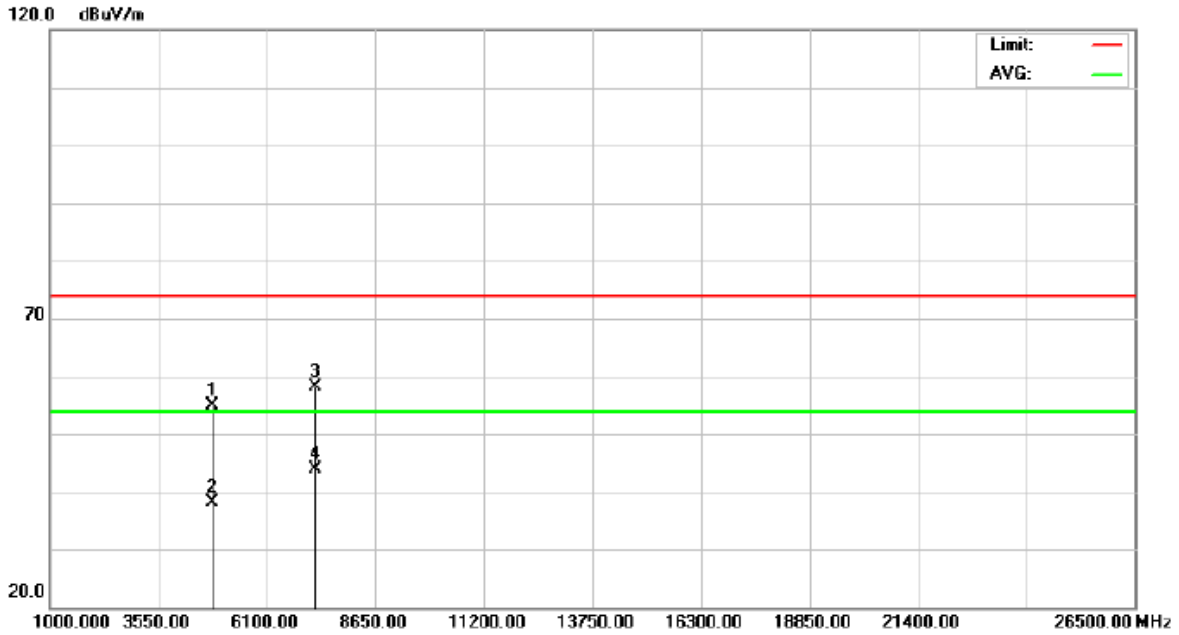


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	23.57	31.81	55.38	74.00	-18.62	peak	
2		2390.000	11.68	31.81	43.49	54.00	-10.51	AVG	
3	*	2402.000	64.13	31.86	95.99	74.00	21.99	peak	
4		2402.000	15.40	31.86	47.26	54.00	-6.74	AVG	



EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/2402 MHz		

Polarization: Horizontal

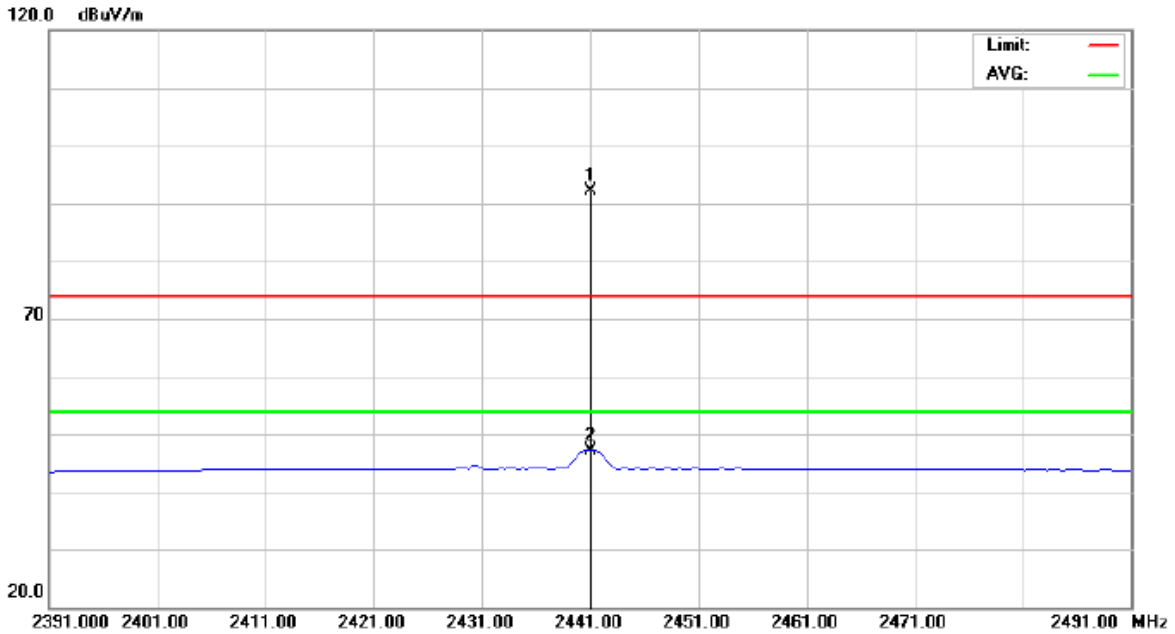


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4803.895	48.62	6.19	54.81	74.00	-19.19	peak	
2		4803.895	32.03	6.19	38.22	54.00	-15.78	AVG	
3		7205.925	45.86	12.38	58.24	74.00	-15.76	peak	
4	*	7205.925	31.54	12.38	43.92	54.00	-10.08	AVG	



EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/2441 MHz		

Polarization: Vertical

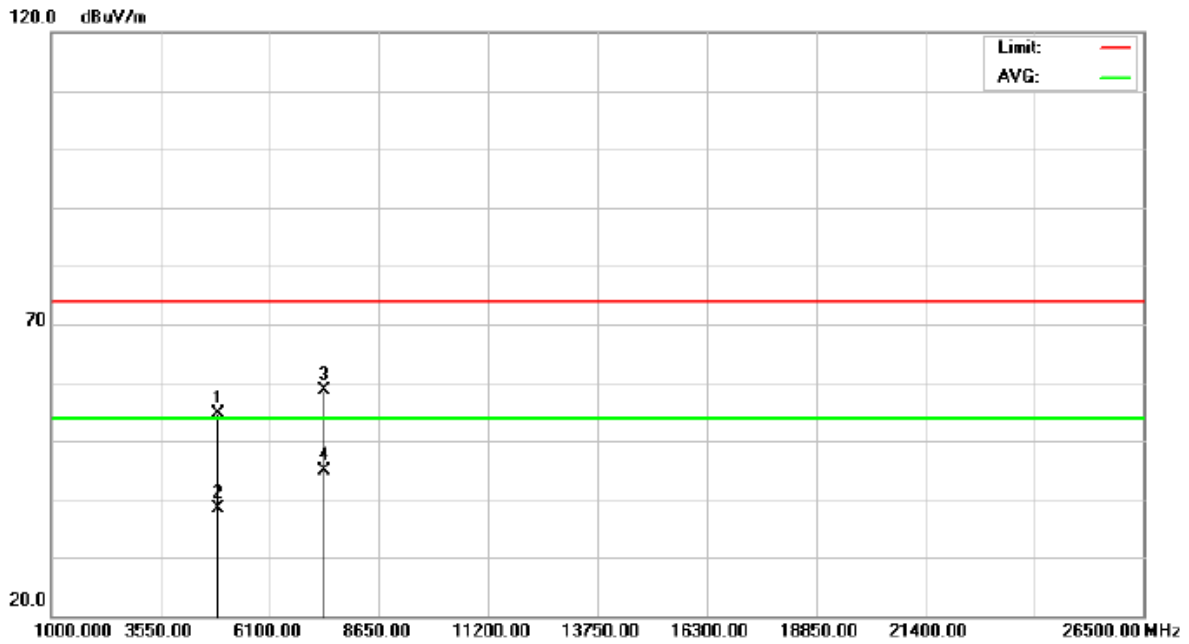


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2441.000	59.99	32.02	92.01	74.00	18.01	peak	
2		2441.000	15.19	32.02	47.21	54.00	-6.79	AVG	



EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/2441 MHz		

Polarization: Vertical

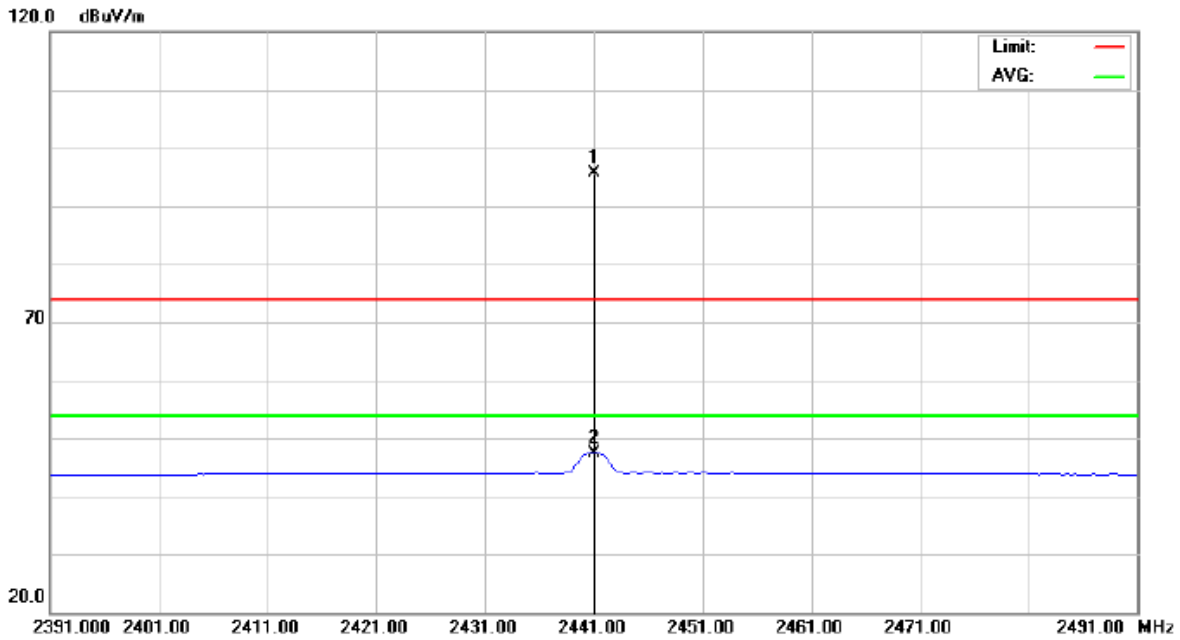


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4882.000	48.31	6.29	54.60	74.00	-19.40	peak	
2		4882.000	31.99	6.29	38.28	54.00	-15.72	AVG	
3		7323.255	45.73	12.81	58.54	74.00	-15.46	peak	
4	*	7323.255	32.13	12.81	44.94	54.00	-9.06	AVG	



EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/2441 MHz		

Polarization: Horizontal

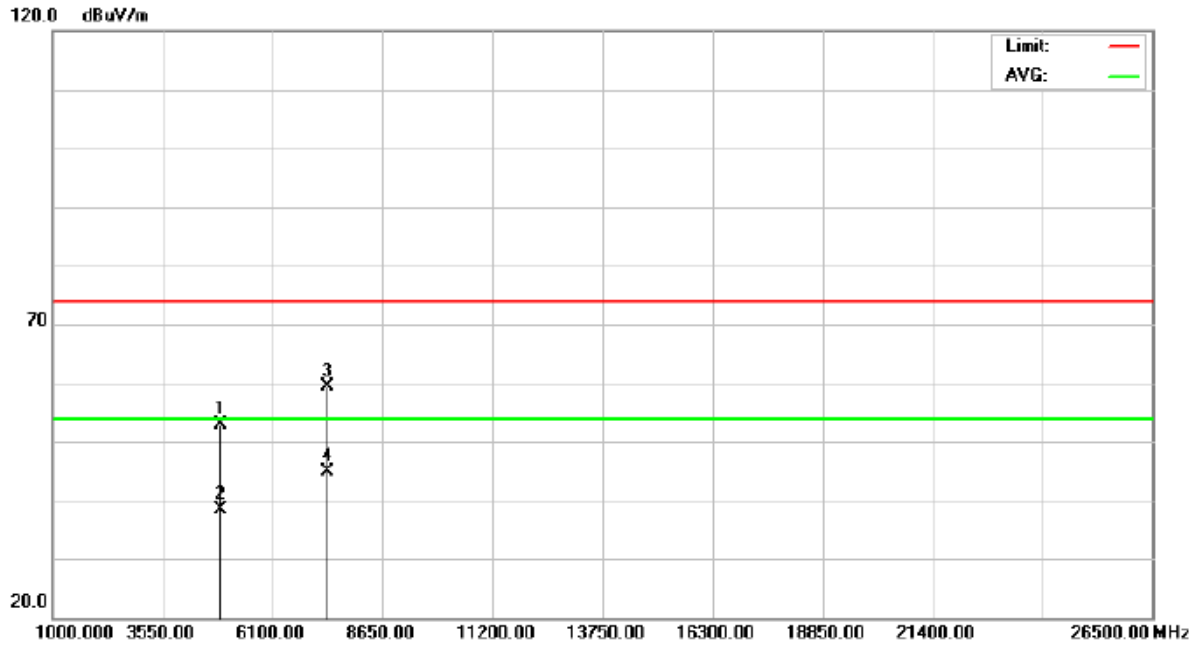


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2441.000	63.56	32.02	95.58	74.00	21.58	peak	
2		2441.000	15.44	32.02	47.46	54.00	-6.54	AVG	



EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/2441 MHz		

Polarization: Horizontal

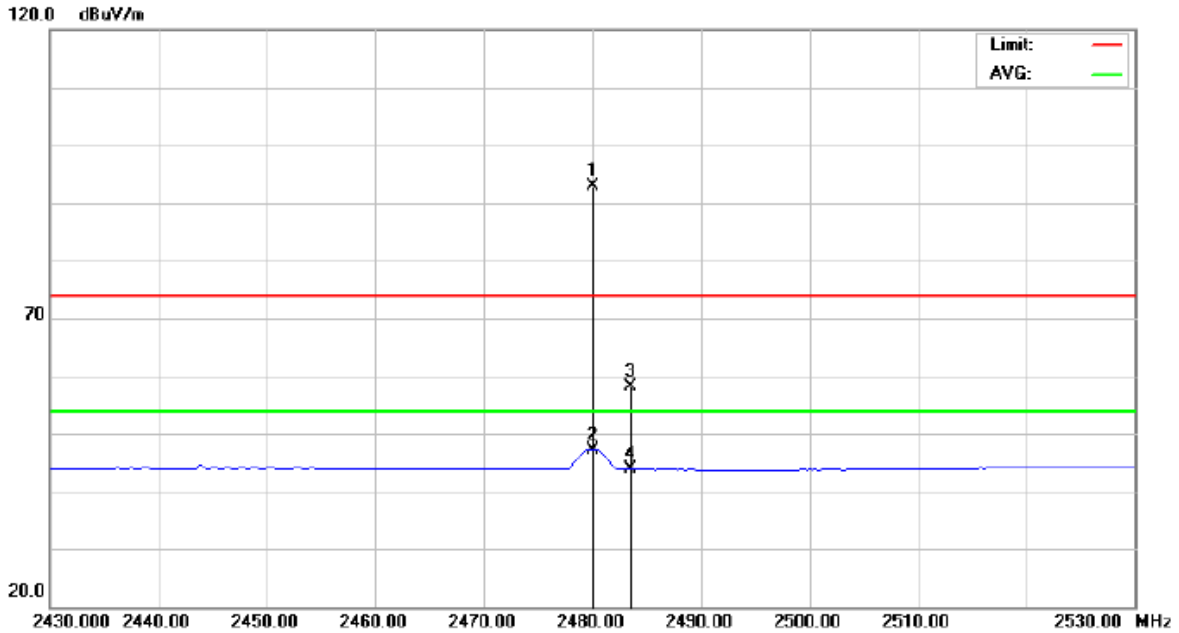


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4881.925	46.65	6.29	52.94	74.00	-21.06	peak	
2		4881.925	32.06	6.29	38.35	54.00	-15.65	AVG	
3		7323.185	46.57	12.81	59.38	74.00	-14.62	peak	
4	*	7323.185	32.13	12.81	44.94	54.00	-9.06	AVG	



EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/2480 MHz		

Polarization: Vertical

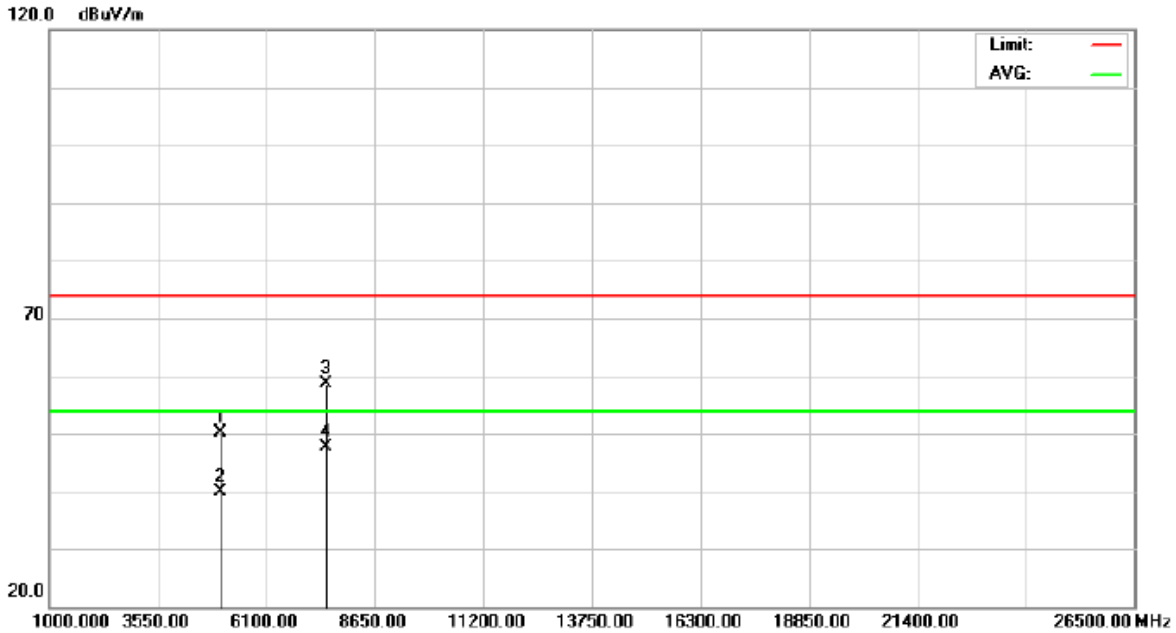


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2480.000	60.68	32.18	92.86	74.00	18.86	peak	
2		2480.000	15.00	32.18	47.18	54.00	-6.82	AVG	
3		2483.500	25.86	32.19	58.05	74.00	-15.95	peak	
4		2483.500	11.61	32.19	43.80	54.00	-10.20	AVG	



EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/2480 MHz		

Polarization: Vertical

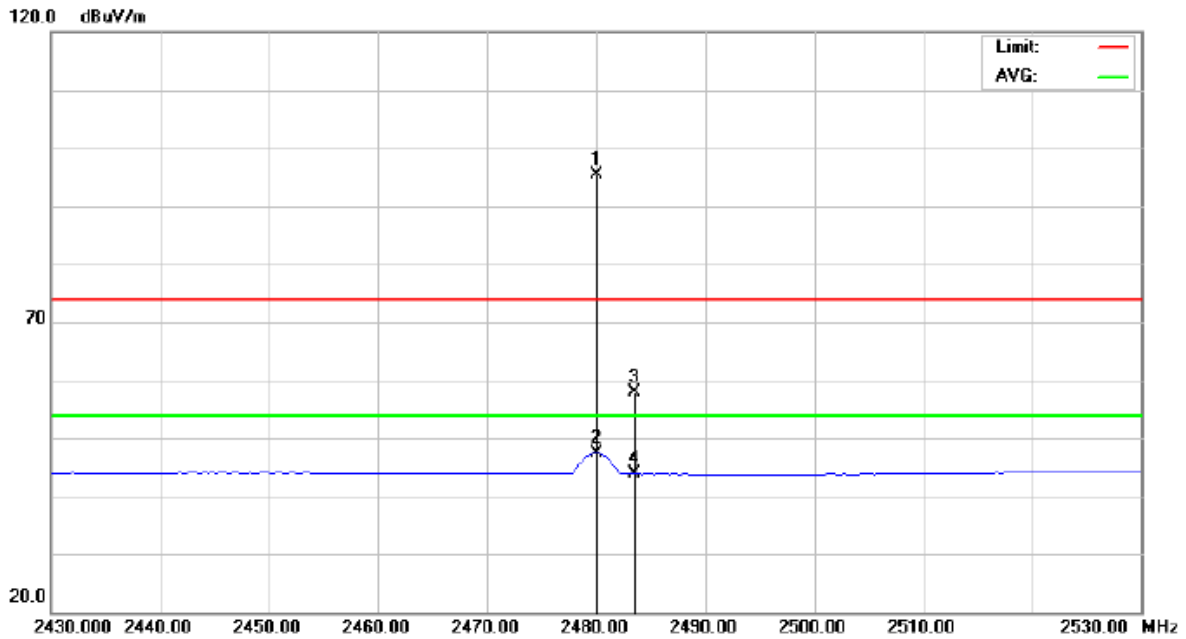


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4962.575	43.69	6.39	50.08	74.00	-23.92	peak	
2		4962.575	33.44	6.39	39.83	54.00	-14.17	AVG	
3		7440.375	45.27	13.25	58.52	74.00	-15.48	peak	
4	*	7440.375	34.42	13.25	47.67	54.00	-6.33	AVG	



EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/2480 MHz		

Polarization: Horizontal

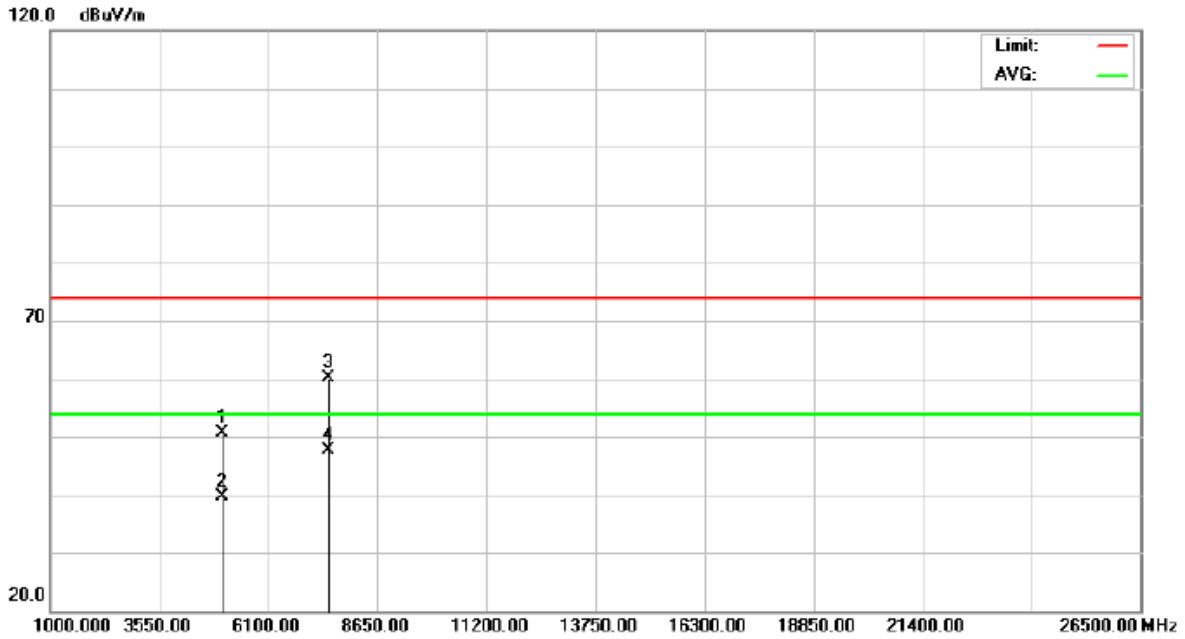


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	2480.000	63.32	32.18	95.50	74.00	21.50	peak	
2		2480.000	15.11	32.18	47.29	54.00	-6.71	AVG	
3		2483.500	25.61	32.19	57.80	74.00	-16.20	peak	
4		2483.500	11.60	32.19	43.79	54.00	-10.21	AVG	



EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/2480 MHz		

Polarization: Horizontal



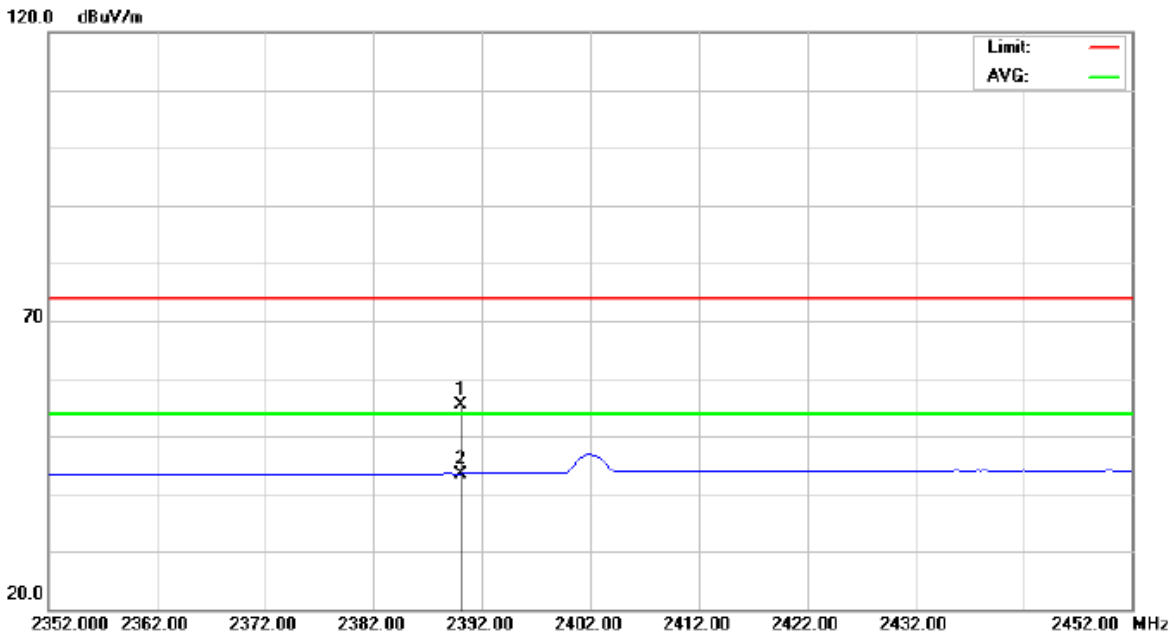
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4959.500	44.27	6.39	50.66	74.00	-23.34	peak	
2		4959.500	33.25	6.39	39.64	54.00	-14.36	AVG	
3		7440.325	46.86	13.25	60.11	74.00	-13.89	peak	
4	*	7440.325	34.45	13.25	47.70	54.00	-6.30	AVG	



8.9 TEST RESULTS (RESTRICTED BANDS)

EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	46%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/2402 MHz		
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.		

Polarization: Vertical

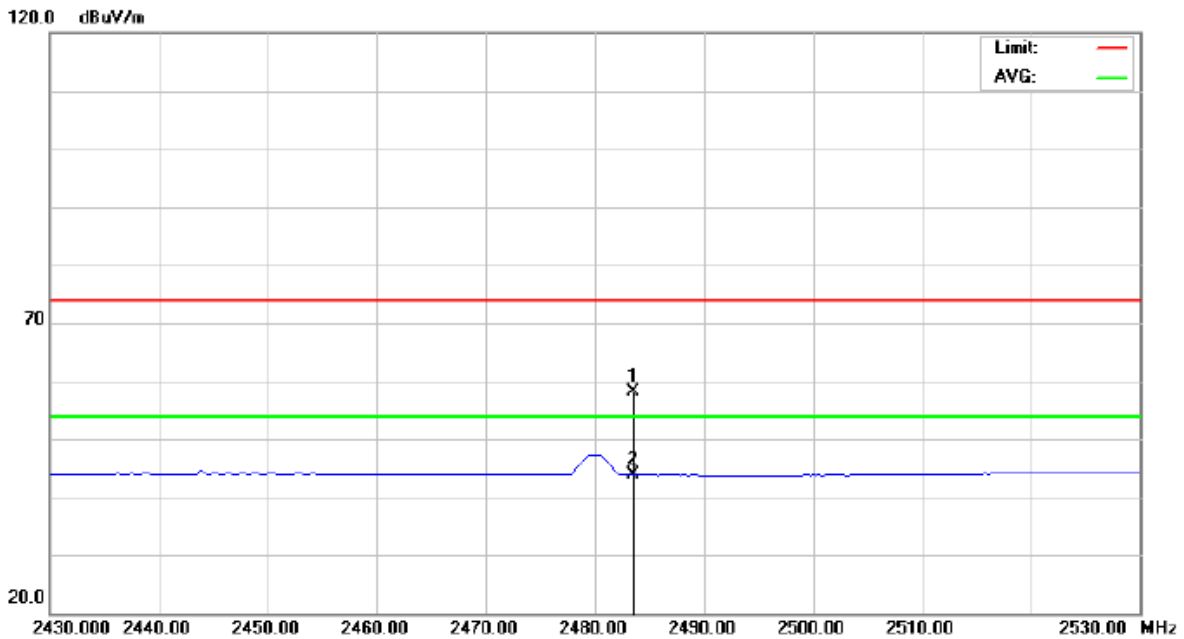


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	23.57	31.81	55.38	74.00	-18.62	peak	
2	*	2390.000	11.67	31.81	43.48	54.00	-10.52	AVG	



EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	46%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/2480 MHz		
NOTE	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.		

Polarization: Vertical

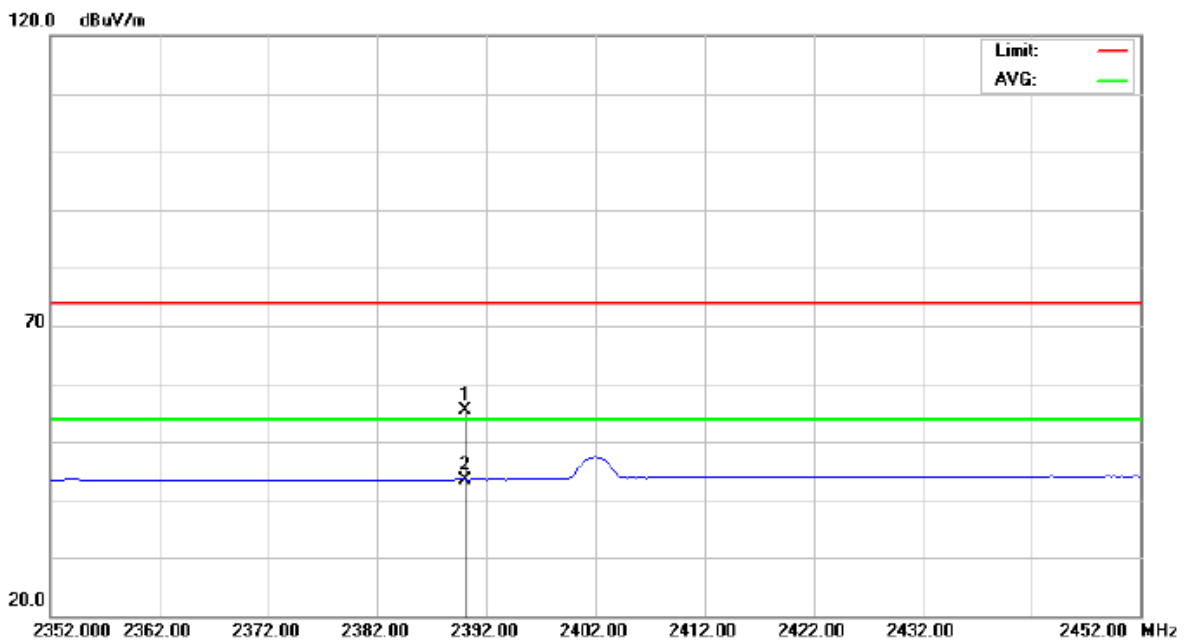


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2483.500	25.86	32.19	58.05	74.00	-15.95	peak	
2	*	2483.500	11.61	32.19	43.80	54.00	-10.20	AVG	



EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	46%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/2402 MHz		
NOTE	The transmitter was setup to transmit at the lowest channel and the field strength was measured at 2310-2390 MHz.		

Polarization: Horizontal

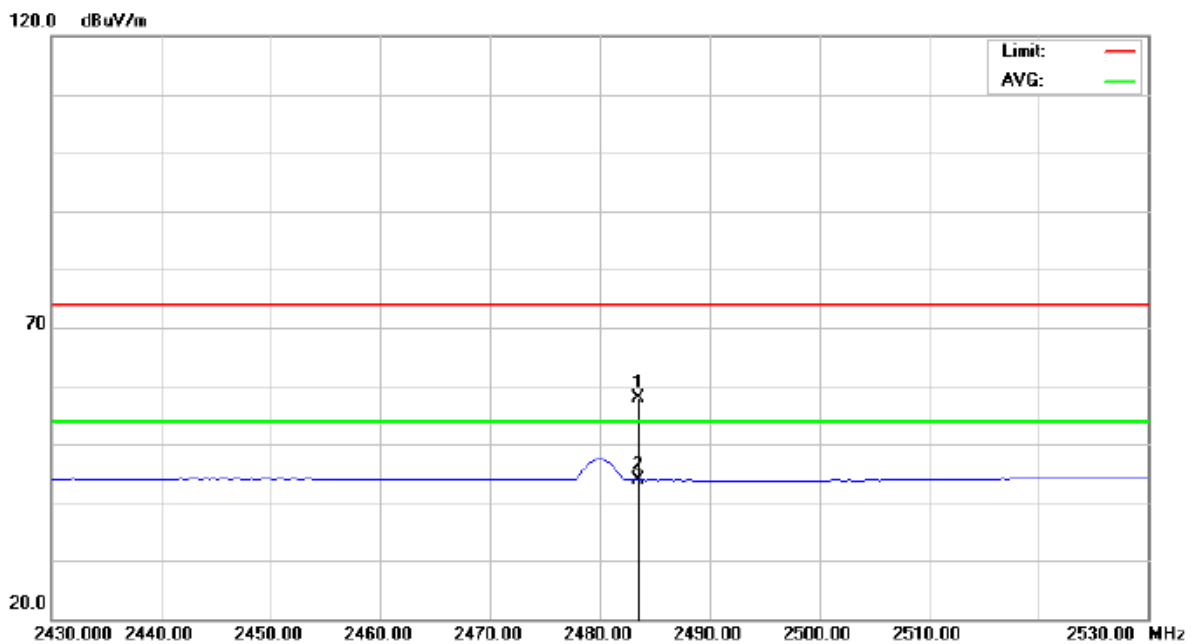


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2390.000	23.57	31.81	55.38	74.00	-18.62	peak	
2	*	2390.000	11.68	31.81	43.49	54.00	-10.51	AVG	



EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	46%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/2480 MHz		
NOTE	The transmitter was setup to transmit at the highest channel and the field strength was measured at 2483.5-2500 MHz.		

Polarization: Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2483.500	25.61	32.19	57.80	74.00	-16.20	peak	
2 *	2483.500	11.60	32.19	43.79	54.00	-10.21	AVG	



9 NUMBER OF HOPPING FREQUENCY

9.1 LIMIT

Test Item	Frequency Range (MHz)	Limit
Number of Hopping Channel	2400-2483.5	shall use at least 15 channels

9.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

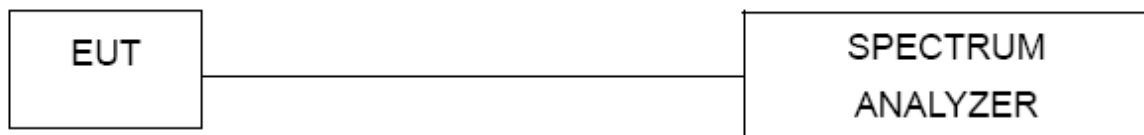
9.3 MEASURING INSTRUMENTS SETTING

Spectrum Analyzer	Parameter Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RB	100 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

9.4 TEST PROCEDURES

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 100 kHz, VBW=100 kHz, Sweep time = Auto.

9.5 TEST SETUP LAYOUT



9.6 DEVIATION FROM TEST STANDARD

No deviation

9.7 EUT OPERATING CONDITIONS

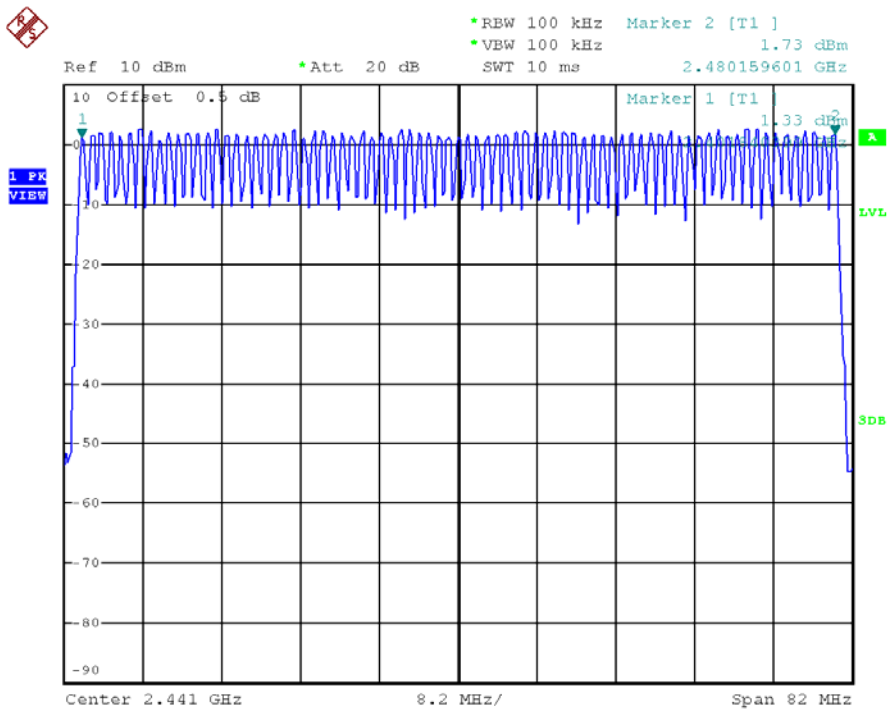
The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.



9.8 TEST RESULTS

EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	60%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/1 Mbps		

Number of Hopping Channel	Limit	Result
79	15	Pass



Date: 24.FEB.2014 16:52:07



10 AVERAGE TIME OF OCCUPANCY

10.1 LIMIT

Test Item	Frequency Range (MHz)	Limit
Average time of occupancy	2400-2483.5	shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

10.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Sep. 08, 2014

NOTE: **N/A**: denotes No Model Name, No Serial No. or No Calibration specified.

10.3 TEST PROCEDURES

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 100 kHz and VBW to 100 kHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. DH5 Packet permit maximum $1600 / 79 / 6 = 3.37$ hops per second in each channel (5 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $3.37 \times 31.6 = 106.6$ within 31.6 seconds.
- j. DH3 Packet permit maximum $1600 / 79 / 4 = 5.06$ hops per second in each channel (3 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $5.06 \times 31.6 = 160$ within 31.6 seconds.
- k. DH1 Packet permit maximum $1600 / 79 / 2 = 10.12$ hops per second in each channel (1 time slot RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $10.12 \times 31.6 = 320$ within 31.6 seconds.

10.4 TEST SETUP LAYOUT



10.5 DEVIATION FROM TEST STANDARD

No deviation



10.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.6 Unless otherwise a special operating condition is specified in the follows during the testing.

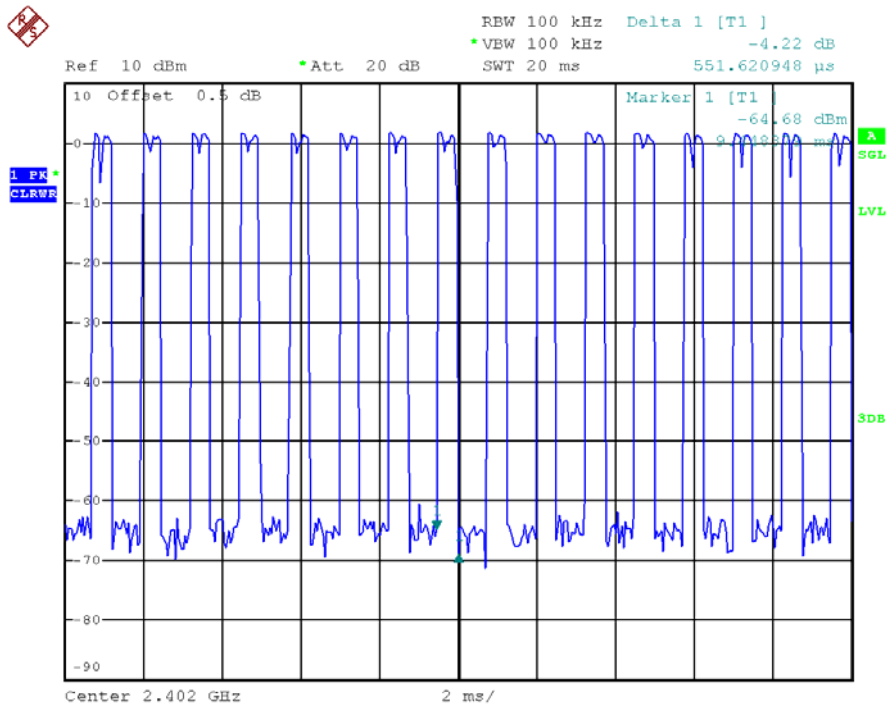


10.7 TEST RESULTS

EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	46%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/2402 MHz		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limit (s)	Result
DH1	2402 MHz	0.5516	0.1765	0.4	PASS

Bluetooth/2402 MHz/DH1



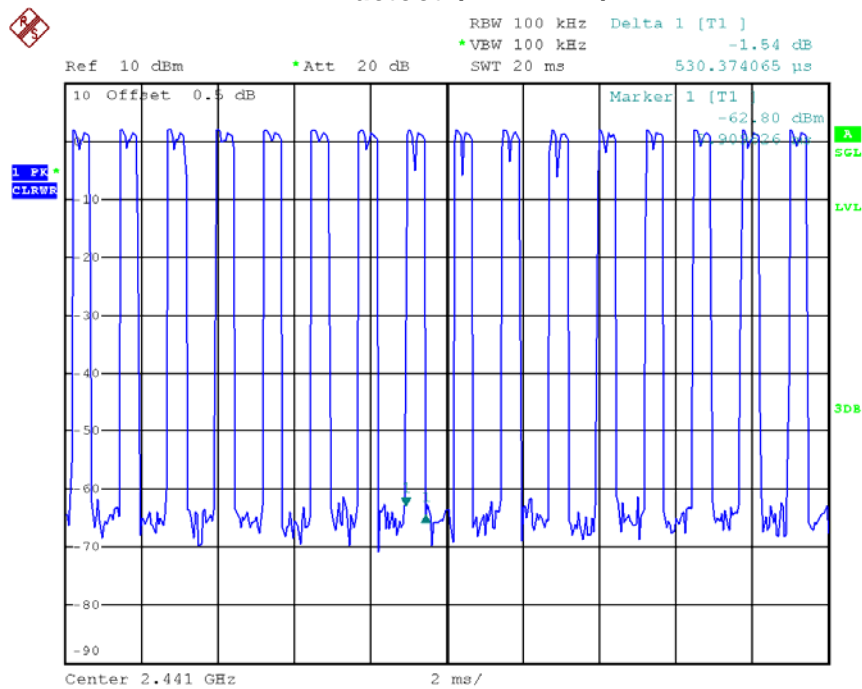
Date: 24.FEB.2014 16:38:26



EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	46%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/2441 MHz		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limit (s)	Result
DH1	2441 MHz	0.5304	0.1697	0.4	PASS

Bluetooth/2441 MHz/DH1



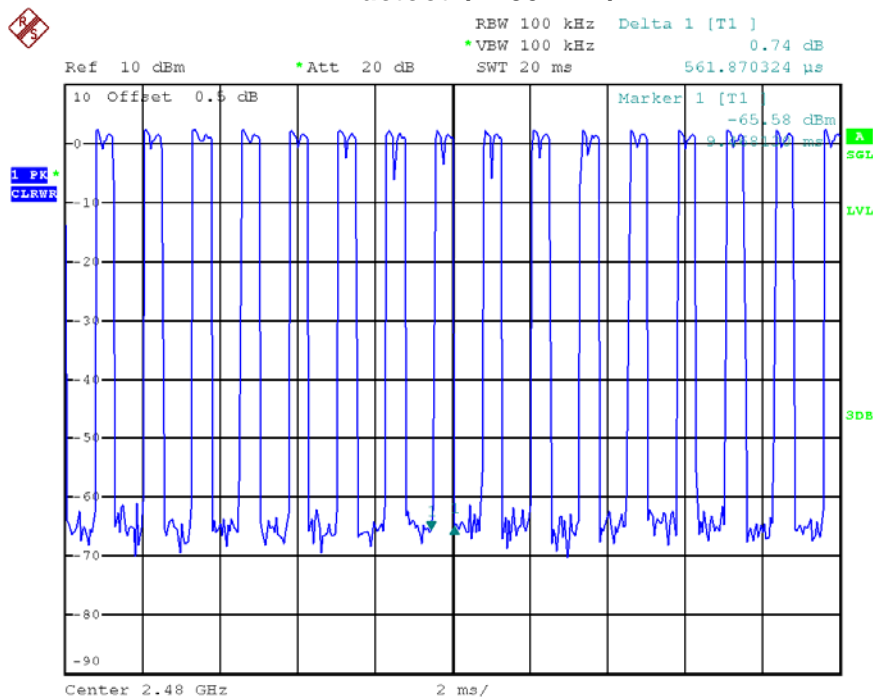
Date: 24.FEB.2014 16:39:54



EUT	Bluetooth keyboard	Model Name	ST-9074
Temperature	24°C	Relative Humidity	46%
Test Voltage	AC 120V/60Hz		
Test Mode	Bluetooth/2480 MHz		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limit (s)	Result
DH1	2480 MHz	0.5619	0.1798	0.4	PASS

Bluetooth/2480 MHz/DH1



Date: 24.FEB.2014 16:41:05



11 EUT TEST PHOTO

Radiated spurious emission test photos

